	Application No.		09/991,378	
	Filing Date		November 21, 2001	
	First Named Inventor		Miles, Mark W.	
	Art Unit		2629	
	Examiner		Piziali, Jeffrey J.	
SHEET 1 OF 1		Attorney Docket No.		IRDM.029CPC/0005B1C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
<i>JP</i>	1	3,746,785	07-17-1973	Te Velde, Ties S.	
<i>JP</i>	2	4,403,248	09-06-1983	Goodrich, George W.	
<i>JP</i>	3	5,126,836	06-30-1992	Um, Gregory	
<i>JP</i>	4	5,185,660	02-09-1993	Um, Gregory	

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Examiner Signature <i>Jeff Piziali</i>	Date Considered <i>11-27-06</i>
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 7

Application No.	09/991,378
Filing Date	November 21, 2001
First Named Inventor	Miles, Mark W.
Art Unit	2629
Examiner	Piziali, Jeffrey J.
Attorney Docket No.	IRDM.029CPC

U.S. PATENT DOCUMENTS

Examiner's Initials	File No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JP	1	3,184,600	5/1/1965	Potter, John T.	
JP	2	3,371,345	2/1/1968	Lewis, Bernard L.	
JP	3	3,410,363	11/1/1968	Schwartz, Edmund I.	
JP	4	4,347,983	9/1/1982	Bodai, Conrad A.	
JP	5	4,977,009	12/11/1990	Anderson et al.	
JP	6	5,148,157	9/15/1992	Florence, James M.	
JP	7	5,244,707	9/14/1993	Shores	
JP	8	5,304,419	4/19/1994	Shores	
JP	9	5,353,114	10/4/1994	Hansen, Per B.	
JP	10	5,450,205	9/12/1995	Sawin, et al.	
JP	11	5,497,197	3/5/1996	Gove et al.	
JP	12	5,580,144	12/3/1996	Stroomer, Martinus V. C.	
JP	13	5,591,379	1/7/1997	Shores	
JP	14	5,699,074	12/16/1997	Sutherland et al.	
JP	15	5,815,141	9/29/1998	Phares	
JP	16	5,945,980	8/31/1999	Moissev et al.	
JP	17	6,028,690	2/22/2000	Carter et al.	
JP	18	6,038,056	3/14/2000	Florence et al.	
JP	19	6,113,239	9/5/2000	Sampsel et al.	
JP	20	6,147,790	11/14/2000	Meier et al.	
JP	21	6,160,833	12/12/2000	Floyd et al.	
JP	22	6,180,428	1/30/2001	Peeters et al.	
JP	23	6,201,633	3/13/2001	Peeters et al.	
JP	24	6,222,511	4/24/2001	Stoller et al.	
JP	25	6,242,989	6/5/2001	Barber, et al.	
JP	26	6,275,220	8/14/2001	Nitta	
JP	27	6,282,010	8/28/2001	Sulzbach et al.	
JP	28	6,295,154	9/25/2001	Laor et al.	
JP	29	6,304,297	10/16/2001	Swan	

Examiner Signature

Jeff Piziali

Date Considered

11-27-06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

Application No. 09/991,378
 Filing Date November 21, 2001
 First Named Inventor Miles, Mark W.
 Art Unit 2629
 Examiner Piziali, Jeffrey J.
 Attorney Docket No. IRDM.029CPC

SHEET 2 OF 7

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JS	30	6,323,982	11/27/2001	Hornbeck	
JS	31	6,339,417	1/15/2002	Quanrud	
JS	32	6,395,863	5/28/2002	Geaghan	
JS	33	6,424,094	7/23/2002	Feldman	
JS	34	6,465,355	10/15/2002	Horsley	
JS	35	6,466,354	10/15/2002	Gudeman	
JS	36	6,466,358	10/15/2002	Tew	
JS	37	6,473,072	10/29/2002	Comiskey et al.	
JS	38	6,473,274	10/29/2002	Maimone et al.	
JS	39	6,480,177	11/12/2002	Doherty et al.	
JS	40	6,496,122	12/17/2002	Sampsell	
JS	41	6,545,335	4/8/2003	Chua et al.	
JS	42	6,548,908	4/15/2003	Chua et al.	
JS	43	6,549,195	4/15/2003	Hikida et al.	
JS	44	6,549,338	4/15/2003	Wolverton et al.	
JS	45	6,552,840	4/22/2003	Knipe	
JS	46	6,574,033	6/3/2003	Chui et al.	
JS	47	6,589,625	7/8/2003	Kothari et al.	
JS	48	6,600,201	7/29/2003	Hartwell et al.	
JS	49	6,606,175	8/12/2003	Sampsell et al.	
JS	50	6,625,047	9/23/2003	Coleman, Jr., deceased	
JS	51	6,630,786	10/7/2003	Cummings et al.	
JS	52	6,632,698	10/14/2003	Ives	
JS	53	6,643,069	11/4/2003	Dewald	
JS	54	6,666,561	12/23/2003	Blakley	
JS	55	6,674,090	1/6/2004	Chua et al.	
JS	56	6,741,377	5/25/2004	Miles	
JS	57	6,741,384	5/25/2004	Martin et al.	
JS	58	6,741,503	5/25/2004	Farris et al.	

Examiner Signature *Jeff Piziali*Date Considered *11-27-06*

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 3 OF 7

Application No.	09/991,378
Filing Date	November 21, 2001
First Named Inventor	Miles, Mark W.
Art Unit	2629
Examiner	Piziali, Jeffrey J.
Attorney Docket No.	IRDM.029CPC

U.S. PATENT DOCUMENTS

Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JS	59	6,747,785	6/8/2004	Chen et al.	
JS	60	6,747,800	6/8/2004	Lin	
JS	61	6,762,873	7/13/2004	Coker et al.	
JS	62	6,775,174	8/10/2004	Huffman et al.	
JS	63	6,778,155	8/17/2004	Doherty et al.	
JS	64	6,794,119	9/21/2004	Miles	
JS	65	6,811,267	11/2/2004	Allen et al.	
JS	66	6,819,469	11/16/2004	Koba	
JS	67	6,822,628	11/23/2004	Dunphy et al.	
JS	68	6,829,132	12/7/2004	Martin et al.	
JS	69	6,853,129	2/8/2005	Cummings et al.	
JS	70	6,855,610	2/15/2005	Tung et al.	
JS	71	6,859,218	2/22/2005	Luman et al.	
JS	72	6,861,277	3/1/2005	Monroe et al.	
JS	73	6,862,022	3/1/2005	Slupe	
JS	74	6,862,029	3/1/2005	D'Souza et al.	
JS	75	6,870,581	3/22/2005	Li et al.	
JS	76	6,870,654	3/22/2005	Lin et al.	
JS	77	6,882,458	4/19/2005	Lin et al.	
JS	78	6,882,461	4/19/2005	Tsai et al.	
JS	79	6,912,022	6/28/2005	Lin et al.	
JS	80	6,952,303	10/4/2005	Lin et al.	
JS	81	6,958,847	10/25/2005	Lin	
JS	82	2001/0050666	12/13/2001	Huang et al.	
JS	83	2002/0012159	1/31/2002	Tew	
JS	84	2002/0041264	4/11/2002	Quanrud	
JS	85	2002/0171610	11/21/2002	Siwinski et al.	
JS	86	2002/0175284	11/28/2002	Vilain	
JS	87	2002/0181208	12/5/2002	Credelle et al.	

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Jeff Piziali

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 4 OF 7

Application No. 09/991,378
 Filing Date November 21, 2001
 First Named Inventor Miles, Mark W.
 Art Unit 2629
 Examiner Piziali, Jeffrey J.
 Attorney Docket No. IRDM.029CPC

U.S. PATENT DOCUMENTS

Examiner's Initials	Date No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
<i>JP</i>	88	2002/0186209	12/12/2002	Cok	
<i>JP</i>	89	2003/0004272	1/2/2003	Power	
<i>JP</i>	90	2003/0107805	6/12/2003	Street	
<i>JP</i>	91	2003/0122773	7/3/2003	Washio	
<i>JP</i>	92	2003/0128197	7/10/2003	Turner et al.	
<i>JP</i>	93	2003/0141453	7/31/2003	Reed et al.	
<i>JP</i>	94	2003/0173504	9/18/2003	Cole et al.	
<i>JP</i>	95	2003/0202264	10/30/2003	Weber et al.	
<i>JP</i>	96	2003/0202265	10/30/2003	Reboa et al.	
<i>JP</i>	97	2003/0202266	10/30/2003	Ring et al.	
<i>JP</i>	98	2004/0058532	3/25/2004	Miles et al.	
<i>JP</i>	99	2004/0080807	4/29/2004	Chen et al.	
<i>JP</i>	100	2004/0125281	7/1/2004	Lin et al.	
<i>JP</i>	101	2004/0145049	7/29/2004	McKinnell et al.	
<i>JP</i>	102	2004/0145811	7/29/2004	Lin et al.	
<i>JP</i>	103	2004/0147056	7/29/2004	McKinnell et al.	
<i>JP</i>	104	2004/0147198	7/29/2004	Lin et al.	
<i>JP</i>	105	2004/0150939	8/5/2004	Huff	
<i>JP</i>	106	2004/0160143	8/19/2004	Shreeve et al.	
<i>JP</i>	107	2004/0174583	9/9/2004	Chen et al.	
<i>JP</i>	108	2004/0175577	9/9/2004	Lin et al.	
<i>JP</i>	109	2004/0179281	9/16/2004	Reboa	
<i>JP</i>	110	2004/0207897	10/21/2004	Lin	
<i>JP</i>	111	2004/0209192	10/21/2004	Lin et al.	
<i>JP</i>	112	2004/0209195	10/21/2004	Lin	
<i>JP</i>	113	2004/0212026	10/28/2004	Van Brocklin et al.	
<i>JP</i>	114	2004/0217378	11/4/2004	Martin et al.	
<i>JP</i>	115	2004/0217919	11/4/2004	Pichl et al.	
<i>JP</i>	116	2004/0218251	11/4/2004	Piehl et al.	

Examiner Signature

Jeff Piziali

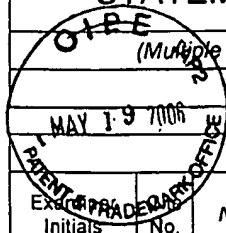
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Multiple sheets used when necessary) SHEET 5 OF 7	Application No.	09/991,378
	Filing Date	November 21, 2001
	First Named Inventor	Miles, Mark W.
	Art Unit	2629
	Examiner	Piziali, Jeffrey J.
	Attorney Docket No.	IRDM.029CPC



U.S. PATENT DOCUMENTS					
Examiner Initials	No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
JS	117	2004/0218334	11/4/2004	Martin et al.	
JS	118	2004/0218341	11/4/2004	Martin et al.	
JS	119	2004/0227493	11/18/2004	Van Brocklin et al.	
JS	120	2004/0240138	12/2/2004	Martin et al.	
JS	121	2004/0245588	12/9/2004	Nikkel et al.	
JS	122	2004/0263944	12/30/2004	Miles et al.	
JS	123	2005/0001828	1/6/2005	Martin et al.	
JS	124	2005/002082	1/6/2005	Miles	
JS	125	2005/0003667	1/6/2005	Lin et al.	
JS	126	2005/0017177	1/27/2005	Tai et al.	
JS	127	2005/0017942	1/27/2005	Tsujino et al.	
JS	128	2005/0024557	2/3/2005	Lin	
JS	129	2005/0035699	2/17/2005	Tsai	
JS	130	2005/0036095	2/17/2005	Yeh et al.	
JS	131	2005/0036192	2/17/2005	Lin et al.	
JS	132	2005/0038950	2/17/2005	Adelmann	
JS	133	2005/0042117	2/24/2005	Lin	
JS	134	2005/0046922	3/3/2005	Lin et al.	
JS	135	2005/0046948	3/3/2005	Lin	
JS	136	2005/0057442	3/17/2005	Way	
JS	137	2005/0068583	3/31/2005	Gutkowski et al.	
JS	138	2005/0068605	3/31/2005	Tsai	
JS	139	2005/0068606	3/31/2005	Tsai	
JS	140	2005/0069209	3/31/2005	Damera-Venkata et al.	
JS	141	2005/0078348	4/14/2005	Lin	
JS	142	2005/0168849	8/4/2005	Lin	
JS	143	2005/0195462	9/8/2005	Lin	
JS	144	2005/0202649	9/15/2005	Hung et al.	

Examiner Signature	<i>Jeff Piziali</i>	Date Considered	<i>11-27-06</i>
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INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

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SHEET 6 OF 7

Application No.	09/991,378
Filing Date	November 21, 2001
First Named Inventor	Miles, Mark W.
Art Unit	2629
Examiner	Piziali, Jeffrey J.
Attorney Docket No.	IRDM.029CPC

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
<i>JP</i>	145	EP 0261897 A2	3/30/1988	Thorn EMI PLC		
<i>JP</i>	146	EP 0608056 A1	7/27/1994	Canon Kabushiki Kaisha		
<i>JP</i>	147	EP 0986077 A2	3/15/2000	Lucent Technologies, Inc.		
<i>JP</i>	148	EP 1067805 A2	1/10/2001	Sharp Kabushiki Kaisha		
<i>JP</i>	149	JP 10161630 A	6/19/1998	Tokyo Shibaura Electric Co.		
<i>JP</i>	150	JP 3109524 A	5/9/1991	Matsushita Electric Ind. Co. LTD		
<i>JP</i>	151	WO 02/063602 A1	8/15/2002	Vilseble Tech-Knowledge, LLC		
<i>JP</i>	152	WO 03/007049 A1	1/23/2003	Iridigm Display Corp.		
<i>JP</i>	153	WO 03/069413 A1	8/21/2003	Iridigm Display Corp.		
<i>JP</i>	154	WO 03/073151 A1	9/4/2003	Iridigm Display Corp.		
<i>JP</i>	155	WO 04/006003 A1	1/15/2004	Iridigm Display Corp.		
<i>JP</i>	156	WO 04/026757 A2	4/1/2004	Iridigm Display Corp.		
<i>JP</i>	157	WO 04/075526 A2	9/2/2004	Koninklijke Philips Electronics N.V.		
<i>JP</i>	158	WO 94/029840 A1	12/22/1994	Scientific-Atlanta, Inc.		
<i>JP</i>	159	WO 97/017628	5/15/1997	Etalon, Inc.		
<i>JP</i>	160	WO 99/052006 A2	10/14/1999	Etalon, Inc.		
<i>JP</i>	161	WO 99/052006 A3	10/14/1999	Etalon, Inc.		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
<i>JP</i>	162	BILLARD, C.; "Tunable Capacitor," 5h Annual Review of LETI, June 24, 2003, page 7.	
<i>JP</i>	163	BOUCHAUD, JEREMIE; WICHT, HENNING; "RF MEMES Analysis, Forecasts and Technology Review," Chip Unaxis, date unknown, [online] retrieved from the Internet: <URL:http://semiconductors.unaxis.com/en/download/RF%20MEMS.pdf>.	
<i>JP</i>	164	Chan et al., "Low-Actuation Voltage RF MEMS Shunt Switch With Cold Switching Lifetime of Seven Billion Cycles," Journal of Microelectromechanical Systems Vol. 12, No.5 (Oct 2003).	

Examiner Signature

Jeff Piziali

Date Considered












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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Multiple sheets used when necessary) MAY 19 2006 PATENT & TRADEMARK OFFICE	Application No.	09/991,378
	Filing Date	November 21, 2001
	First Named Inventor	Miles, Mark W.
	Art Unit	2629
	Examiner	Piziali, Jeffrey J.
SHEET 7 OF 7		Attorney Docket No. IRDM.029CPC

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	165	De Coster et al., "VARIABLE RF MEMS CAPACITORS WITH EXTENDED TUNING RANGE", IEEE International Solid-State Sensors and Actuators Conference, Boston, (June 8-12, 2003).	
	166	Heines et al., "BI-STABLE FLAT-PANEL DISPLAY BASED ON A 180 [DEG.] FLIPPING PIXEL", Conference: Displays IX: Displays for Defense Applications, (April 2-5, 2002), Proceedings of the SPIE: The International Society for Optical Engineering, Vol. 4712, Pages 327-335.	
	167	Li, G.P. "On the design and Fabrication of Electrostatic RF MEMS Switches," Final Report 1999-00 for MICRO Project 99-071, University of California, Irvine.	
	168	Mait, "DESIGN OF DIFFRACTIVE OPTICAL ELEMENTS FOR OPTICAL SIGNAL PROCESSING", IEEE Lasers and Electro-Optics Society Annual Meeting, pages 59-60, (November 15-18, 1993).	
	169	NIEMINEN, HEIKKI, ERMOLOV, VLADIMIR; SILANTO, SAMULI; NYBERGH, KJELL; RHANEN, TAPANI; "Design of a Temperature-Stable RF MEM Capacitor," Institute of Electrical and Electronics Engineers (IEEE) Journal of Microelectromechanical Systems, Vol. 13, No. 5, October 2004, pp.705-714.	
	170	Oz et al., "CMOS-COMPATIBLE RF-MEMS TUNABLE CAPACITORS", IEEE MTT-S International Microwave Symposium - IMS 2003, (June 8-13, 2003).	
	171	Pacheco et al. "Design of Low Actuation Voltage RF MEMS Switch" Radiation Laboratory and Center for Microsystems Department of Electrical Engineering and Computer Science University of Michigan, IEEE (2000) 0-7803-5687-X/00/	
	172	Solgaard et al., "INTERFERENCE-BASED OPTICAL MEMS FILTERS", Optical 2004 Fiber Communication Conference, Volume 1, (February 23-27, 2004).	
	173	Tan et al. "RF MEMS Simulation-High Isolation CPW Shunt Switches", Ansoft: Global Seminars: Delivering Performance (2003)	
	174	Vähä-Heikkilä et al. "DESIGN OF CAPACITIVE RF MEMS POWER SENSOR" VTT Information Technology, (2002), available at < http://www.hut.fi/Units/Radio/URSI02/ursi_vaha-heikkila.pdf >	
	175	Wang et al., "DESIGN AND FABRICATION OF A NOVEL TWO-DIMENSION MEMS-BASED TUNABLE CAPACITOR", IEEE 2002 International Conference on Communications, Circuits and Systems and West Sino Expositions, Volume 2, Pages 1766 - 1769, (June 29 - July 1, 2002).	

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Examiner Signature	<i>Jeff Piziali</i>	Date Considered	<i>11-27-06</i>
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